CTI Engineering Standards and Maintenance Committee

Committee Report for July 7-10, 2019

Ken Mortensen, SPX Cooling Technologies - Chair
Nina Woicke, Enexio - Vice Chair
Phillip Poll, OBR Cooling Towers - Vice Chair and Scheduler
John Ahern, EvapTech - Vice Chair and Secretary
Jon Bickford, Alliant Energy, AdHoc Coordinator

Opening Attendance 40
Closing Attendance 22

I. July 2019 Meeting

II. Minutes for Winter 2019 ES&M were accepted

III. Lead Task Group Chair Reports

Wood, Metal, and Concrete Materials Task Group [Bill Howard]

- ESG-123 Concrete Restoration and Repairs, to BOD for approval.
- STD-112 Pressure Preservative Treatment of Lumber, to BOD for approval.
- ESG-166 Recommended Guidelines for Fire Partitions - Tom Kline, In work. Draft was reviewed. Comments will be incorporated.

- The various wood standards are due to be reviewed and volunteers are needed.

Mechanical and Electrical Task Group [Craig Burris]

- Chapter 11 – Electrical Components, James Blake - In work. Getting outside electrical contractor involved on several items.
- Chapter 10 Mechanical Components, Craig Burris – In work, good progress. May move some chapters to other documents. Fan section needs an update.
- ESG-151 VFD Application Guidelines, Craig Burris – In work.

FRP and Plastics Task Group [Jamie Bland]
• STD-137 Fiberglass Pultruded Structural Products, Ken Mortensen, Bhyrav Mutnuri – Added FRP testing requirements for CTI certification. A revision is likely in February for changes due to the new ASCE Fiberglass Code.

• STD-136 Thermoplastic Material for Fill, Chris Bowman and Ken Mortensen – Finalizing HDPE Mechanical Properties and then to ADHOC.

• ESG-152 Structural Design for FRP Components – Tom Toth, Rewriting the moisture/temp/immersion table section. Close to finalizing.

• ESG-164 on Thermoplastic Fill, Nina Woicke – The document is in major rework. Document will be made into three parts, Mechanical, Fire, and UV. This particular document will be eventually replaced with 170, 171, and 172.

• STD-170 UV Testing - Fill, Nina Woicke – In work on protocol.

• STD-171 Mechanical Testing - Fill, Nina Woicke – In work on protocol. Looking for input on hanging and splash bar testing methods.

• STD-172 Fire Testing – Fill, Nina Woicke – Agreed on protocol. Review and start with preliminary testing.

• Information, R Seismic Factor, Bill Howard, Tom Toth – Update on the status of the new LRFD code. Anticipated approval by the first Quarter of 2020. Looking into test facilities for shake table and getting Jim Harris to Steamboat next July. Need to evaluate where the approx. $300,000 to $500,000 will come from.

• New FRP Life Extension- after a discussion, it was decided to add this to Chapter 1.

• STD-124 Fan Stack Material Standard, Tom Toth – In review.

Tower Operations Task Group [Phillip Poll]

• Chapter 1, Cooling Tower Operations, Dave Staat and Brian Lesniak - This document is in review.


• Chapter 13 Inspection of Cooling Towers, Dave Staat, Ethan Chestnut – Sections are being added and reviewed. Good progress.

Hazard & Environmental Protection Systems Task Group [James Blake]

• GDL-159 Legionella, Ken Mortensen and others – To ADHOC.

• ESG-162 Cleaning Cooling Towers, Phillip Poll and Ken Mortensen – Sending to group for review.

• ESG-121 Construction Safety, Philip Poll and Ethan Chestnut – In work.

• Field Erection – Tom Toth, Ken Pate - General discussion held. In work.

Old Business
• None

New Business
• None
IV. Adjournment –